BRUHAT BANGALORE MAHANAGARA PALIKE

ame of Work: Improvements to roads and drains at Allalsandra, Ambedkar nagar, Kanakanagar and LBS nagara in ward no. 04

l o	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
1	Removing and refixing stone slabs of drains and pointing in CM (1:3) (P.No-27,I No-5.33)								
	For Drain Desilt	Sqm							
	Yelahanka New Town								
	1st A mian road								
	1st A main 1st cross road(RHS)		1	238.00	0.90		214.20		
	2nd A main road		1	302.00	0.90		271.80		
	1st main road		1	36.00	0.90		32.40		
	1st A main road (LHS)		2	80.00	0.90		144.00		
	LBS nagara road		1	92.00	1.20		110.40		
	cross road-1		1	134.00	0.90		120.60		
	cross road-2		1	57.00	0.90		51.30		
			1	65.00	0.90		58.50		
	Deduct for missing/damaged						**646.80**		
							129.36		
	Basic Rate Rs.=	105.00					**517.44**	111.30	**57591.07**
	Add 6% A.W Rs. =	6.30							
	Total Rate Rs. =	**111.30**							
2	KSRRB 300 - Excavation for road, drains and similar works KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 (P.No-143, I.No-19.1)								
	Drain disilt	Cum							
	Yelahanka New Town								
	1st A mian road (RHS)		1	169.00	0.60	0.40	40.56		
	1st A mian road (LHS)		1	69.00	0.75	0.40	20.7		
	1st A main 1st sross road(RHS)		1	148.00	0.60	0.40	35.52		
	1st A main 1st sross road(LHS)		1	154.00	0.60	0.40	36.96		
	2nd A main road		1	36.20	0.60	0.40	8.688		
	LBS nagara road		1	134.00	0.60	0.30	24.12		
	cross road-1		1	57.00	0.60	0.30	10.26		
	cross road-2		1	65.00	0.60	0.30	11.7		
	1st main road								
	For RCC Culvert		4	6.00	0.75	0.60	10.80		
	RCC Drain								
	Yelahanka New Town								
	1st main road LHS		1	198.00	1.10	1.00	217.80		
	1st main road RHS		1	100.00	1.10	1.00	110.00		
	cross road-1		2	154.00	1.10	1.00	338.80		
	1st A main road (LHS)		1	92.00	1.20	1.00	110.40		
	cross road-2(LHS)		1	159.00	1.20	1.00	190.80		
	cross road-2(RHS)		1	98.00	1.10	1.00	107.80		
	Cross Road		1	62.00	1.10	1.00	68.20		
	For RCC Culvert		1	7.00	1.40	1.00	9.80		
	Basic Rate Rs.=	130.00					**1352.91**	215.28	**291254.03**
	Add 6% A.W Rs. =	7.80							
	Sub Total =	137.80							

	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
	8Km Lead, Loading and Unloading =(2*1.28*8)+57	77.48							
	Total Rate Rs. =	**215.28**							
	KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. (P.No-222,I No-27.18)								
	RCC Drain	Cum							
	Yelahanka New Town								
	1st main road LHS		1	198.00	1.10	0.15	32.67		
	1st main road RHS		1	100.00	1.10	0.15	16.50		
	cross road-1		2	154.00	1.10	0.15	50.82		
	1st A main road (LHS)		1	92.00	1.20	0.15	16.56		
	cross road-2(LHS)		1	159.00	1.20	0.15	28.62		
	cross road-2(RHS)		1	98.00	1.10	0.15	16.17		
	Cross Road		1	62.00	1.10	0.15	10.23		
	For RCC Culvert		1	7.00	1.40	0.15	1.47		
	For Road								
	LBS nagar								
	Cross road-1	cum	1	60.00	2.00	0.15	18.00		
	Cross road-2		1	9.70	6.00	0.15	8.73		
	For KERB Stone								
	1st main road		2	198.00	0.20	0.10	7.92		
							207.69	5421.90	**1126074.41**
	Basic Rate Rs.=	5115.00							
	Add 6% A.W Rs. =	306.90							
	Total Rate Rs. =	**5421.90**							
4	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. With 20mm and sown size granite metal course aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compcted for walls and bottom including centring shuttering cost of material HOM of machinary curing etc., complete execluding cost of steel as per MORTH specification no. 1500, 1700, 2200 including cost of material labour HOM complete as per specification. (P.No.271, I.No.37.59.2 of PW, P&IWTD S.R 2018-19)								
	For RCC Drain	Cum							
	Bottom slab								
	Yelahanka New Town								
	1st main road LHS		1	198.00	0.90	0.15	26.73		
	1st main road RHS		1	100.00	0.90	0.15	13.50		
	cross road-1		2	154.00	1.20	0.15	55.44		
	1st A main road (LHS)		1	92.00	1.20	0.15	16.56		
	cross road-2(LHS)		1	159.00	0.90	0.15	21.47		
	cross road-2(RHS)		1	98.00	0.90	0.15	13.23		
	Cross Road		1	62.00	0.90	0.15	8.37		
	side walls								
	Yelahanka New Town								
	1st main road LHS		2	198.00	0.15	0.60	35.64		
	1st main road RHS		2	100.00	0.15	0.60	18.00		
	cross road-1		4	154.00	0.15	0.60	55.44		
	1st A main road (LHS)		2	92.00	0.15	0.60	16.56		
	cross road-2(LHS)		2	159.00	0.15	0.60	28.62		
	cross road-2(RHS)		2	98.00	0.15	0.60	17.64		

	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
	Cross Road		2	62.00	0.15	0.60	11.16		
							338.36		
	For RCC Culvert								
	Raft		1	7.50	1.20	0.20	1.80		
	side walls		2	7.50	0.20	0.60	1.80		
							3.60		
					Net Qty.		**341.96**	7070.20	**2417690.24**
	Basic Rate Rs.=	6670.00							
	Add 6% A.W Rs. =	400.20							
	Total Rate Rs. =	**7070.20**							
5	KSRRB - M2300-14: Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.MORTH Specification No. 1600 & 2200 for TMT bars Fe 500. (P.No.239, I.No 29.29.2 of PW, P&IWTD S.R 2018-19)								
	Considering steel For Drain @ 60 kg / cum	Tonne		338.36	0.060	--	21.99 ~~20.30~~		
	Considering steel For Culvert @ 90 kg / cum			3.60	0.090	--	0.32	65046.9	1451196.3
							~~20.63~~	~~73992.24~~	~~4526412.15~~
	Basic Rate Rs.=	~~69804.00~~	61365.00				22.31		
	Add 6% A.W Rs. =	~~4188.24~~	3681.90						
	Total Rate Rs. =	~~73992.24~~	65046.90						
6	Providing and fixing RCC precast cover slab of 100mm thick for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)								
	For drain cover slab	Sqm							
	Yelahanka New Town								
	1st main road LHS		1	198.00	0.90		178.20		
	1st main road RHS		1	100.00	0.90		90.00		
	cross road-1		2	154.00	1.20		369.60		
	1st A main road (LHS)		1	92.00	0.75		69.00		
	cross road-2(LHS)		1	159.00	0.75		119.25		
	cross road-2(RHS)		1	98.00	0.90		88.20		
	Cross Road		1	62.00	0.90		55.80		
	from item no 1						129.36		
	Missing slabs		1	34.00	0.9	30.6	**1099.41** 1130.01	2337.00	2640833.4 ~~2569321.17~~
7	Providing and fixing RCC precast cover slab of 250mm thick made out of CC 1:2:4 and jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)								
	For Culvert Slabs	Sqm	1	7.50	1.20	--	9.00		
			8	6.00	1.20		57.60		
							66.60	5418.00	**360838.80**
8	Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete. As per the direction of Engineer incharge. (P.No.27, I.No 5.30 of PW, P&IWTD SR 2018-19)								

l o	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
		Nos							
	1st main road LHS		1	198.00		--	198.00		
	1st main road RHS		1	100.00			100.00		
							298.00		
							662.00	432.48	286301.76
	Basic Rate Rs.=	408.00							
	Add 6% A.W Rs. =	24.48							
	Total Rate Rs. =	**432.48**							
9	Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 Specification No. KSRRB M800-6 (P.No.180, I.No.24.1 of PW, P&IWTD SR 2018-19)								
		Sqm							
	1st main road LHS		1	198.00		0.35	69.30		
	1st main road RHS		1	100.00		0.35	35.00		
							104.30	84.80	**8844.64**
	Basic Rate Rs =	80.00							
	Add 6% A.W Rs. =	4.80							
	Total Rate Rs. =	**84.80**							
10	KSRRB M200-24. Dismantling of cement concrete pavement by mechanical means usingmpneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications. MORTH Specification No. 202 (I no-18.47, P No-140)								
	LBS nagar								
	Cross road-1	cum	1	60.00	2.00	0.20	24.00		
	Cross road-2		1	9.70	6.00	0.20	11.64		
							35.64	973.42	**34692.69**
	Basic rate Rs=	899							
	Add 6% A.W Rs.=	53.94							
	Sub Total =	952.94							
	8km Lead Loading and Unloading =(2*1.28*8)	20.48							
	Total rate Rs.=	973.42							
11	Constructing un-reinforced, plain cement concrete for pavements using Grade concrete M30 over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum,Coarse and fine aggregate conforming to IS:383-2016, with Superplastizer at 3 lts conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints,including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades, textured with texturing machine, and curing including cost of all aterials, labour,hire charges of machineries,all lead & lift charges etc., complete as per specifications with OPC at 360 kg/cum and coarse aggregate 0.69cum, fine aggregate 0.46cum. (I No-22.6.1 , P No-176)								
	LBS nagar								
	Cross road-1	cum	1	60.00	2.00	0.15	18.00		
	Cross road-2		1	9.70	9.00	0.15	13.10		
							31.10	5210.96	**162034.80**

	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
	Basic rate Rs=	4916							
	Add 6% A.W Rs.=	294 96							
	Sub Total =	5210 96							
									8837414
								Sub Total 1 Rs.	~~8840756.77~~
	Add GST @ 12%							10604893	~~1060890.69~~
	~~Add PMC @ 1%~~						9897903.7		~~97500.00~~
								Sub Total 2 Rs.	~~9999146.46~~
	Miscellaneous & Rounding off							8096.39	~~853.54~~
								Total Rs.	~~10000000.00~~
									99,09,000/-

CERTIFICATE:

1 The work spot has been inspected by me and the work is found to be necessary.

2 The estimate is prepared as per PW, P&IWTD S R Bangalore circle for the year 2018-2019

3 The Provisions made in the estimate are quite necessary and adequate.

4 The area comes with in the BBMP limits.

Assistant Engineer Ward 04 BBMP	Assistant Executive Engineer Yelahanka New Town Sub Division BBMP	Executive Engineer Yelahanka Division BBMP

Administrative Sanction for Rs. 99.00 lakh

Ninety nine lakhs only

is accorded under head p-1878 18per

works 2

Registered as CE No. .... Subject to conditions contained in enclosed memo No. EE/YNK/AS/45/2020-21 Dt 24.9.2020

Executive Engineer

Sanctioned for Rs. 99,00,000/-

In words NINETY NINE LAKH ONLY

Under P 1878

Job Code No. 004-20-000164

Registered as SE(Y)/TS/ 34 / 2021 Subject to conditions contained in enclosed memo No. 34 / 2021 Dated. 9/10/2020

9-10-2020